

Abstract of the Disclosure

An optical switch is provided for selectively coupling outputs of one or more fibers of a first array to one or more inputs of fibers of a second array. The first array includes a first groove disposed within a front face of the first array. The second array optionally includes a second groove disposed within a front face of the second array. The first and second fiber arrays are oriented so that their respective front faces are disposed in a facing relationship. A roller element is located within at least the first groove, permitting the first array to translate relative to the second array upon the roller element along the direction of the first groove. In addition, detents may be formed within the grooves of each array to create areas in which the roller element may at least temporarily seat. The location and number of detents are arranged to correspond to the location and number of rows of fibers in the respective arrays. Retention of the roller element within a detent permits more accurate registration between fibers of the first and second arrays.